Mohamed M Ahmed

List of Publications by Year in Descending Order

19 papers	437 citations	11 h-index	20 g-index
20 ext. papers	545 ext. citations	3.2 avg, IF	4.6 L-index

#	Paper	IF	Citations
19	Normal and risky driving patterns identification in clear and rainy weather on freeway segments using vehicle kinematics trajectories and time series cluster analysis. *IATSS Research*, **2021**, 45, 137-152	4.2	3
18	Accounting for human-related unobserved heterogeneity in the safety performance of connected vehicles: An incorporation of Bayesian hierarchical negative binomial into simulated work zone warning application. *IATSS Research*, **2021**, 45, 539-539	4.2	7
17	Exploration of Hazardous Material Truck Crashes on Wyoming Interstate Roads using a Novel Hamiltonian Monte Carlo Markov Chain Bayesian Inference. *Transportation Research Record*, **2020**, 2674, 661-675	1.7	12
16	Trajectory-level fog detection based on in-vehicle video camera with TensorFlow deep learning utilizing SHRP2 naturalistic driving data. *Accident Analysis and Prevention*, **2020**, 142, 105521	6.1	11
15	Complementary parametric probit regression and nonparametric classification tree modeling approaches to analyze factors affecting severity of work zone weather-related crashes. *Journal of Modern Transportation*, **2019**, 27, 129-140	3.7	3
14	Snow Detection using In-Vehicle Video Camera with Texture-Based Image Features Utilizing K-Nearest Neighbor, Support Vector Machine, and Random Forest. *Transportation Research Record*, **2019**, 2673, 221-232	1.7	18
13	Impact of Variable Speed Limit in a Connected Vehicle Environment on Truck Driver Behavior under Adverse Weather Conditions: Driving Simulator Study. *Transportation Research Record*, **2019**, 2673, 132-142	1.7	17
12	Complementary methodologies to identify weather conditions in naturalistic driving study trips: Lessons learned from the SHRP2 naturalistic driving study & roadway information database. *Safety Science*, **2019**, 119, 21-28	5.8	11
11	Analyzing the effect of fog weather conditions on driver lane-keeping performance using the SHRP2 naturalistic driving study data. *Journal of Safety Research*, **2019**, 68, 71-80	4	37
10	Utilizing naturalistic driving data for in-depth analysis of driver lane-keeping behavior in rain: Non-parametric MARS and parametric logistic regression modeling approaches. *Transportation Research Part C: Emerging Technologies*, **2018**, 90, 379-392	8.4	44
9	Effects of truck traffic on crash injury severity on rural highways in Wyoming using Bayesian binary logit models. *Accident Analysis and Prevention*, **2018**, 117, 106-113	6.1	63
8	Investigating the Impact of Fog on Freeway Speed Selection using the SHRP2 Naturalistic Driving Study Data. *Transportation Research Record*, **2018**, 2672, 93-104	1.7	30
7	Drivers Lane-Keeping Ability in Heavy Rain: Preliminary Investigation Using SHRP 2 Naturalistic Driving Study Data. *Transportation Research Record*, **2017**, 2663, 99-108	1.7	39
6	Real-time assessment of fog-related crashes using airport weather data: a feasibility analysis. *Accident Analysis and Prevention*, **2014**, 72, 309-17	6.1	45
5	Assessment of Interaction of Crash Occurrence, Mountainous Freeway Geometry, Real-Time Weather, and Traffic Data. *Transportation Research Record*, **2012**, 2280, 51-59	1.7	78
4	Investigating the Temporal Instability in Injury Severity Outcomes of Clear and Adverse Weather Crashes on Rural Mountainous Highways. *Transportation Research Record*,036119812110570	1.7	1
3	Development of a Novel Convolutional Neural Network Architecture Named RoadweatherNet for Trajectory-Level Weather Detection using SHRP2 Naturalistic Driving Data. *Transportation Research Record*,036119812110054	1.7	2

List of Publications

2	Safety Performance Assessment of Connected Vehicles in Mitigating the Risk of Secondary Crashes: A Driving Simulator Study. *Transportation Research Record*,036119812110278	1.7	13
1	Driving Simulator Trajectory-Level Analysis of Truck Drivers Behavioral Alteration in Connected Vehicles Environment Under Fog with Complex Roadway Geometry. *Transportation Research Record*,0361198122108	1.7	2